

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
24 June 2004 (24.06.2004)

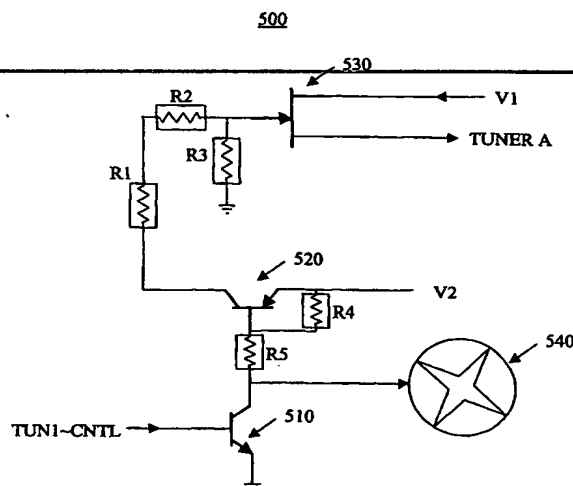
PCT

(10) International Publication Number  
**WO 2004/054227 A2**

- (51) International Patent Classification<sup>7</sup>: **H04N** (74) Agents: **TRIPOLI, Joseph, S.** et al.; c/o Thomson Licensing Inc., Two Independence Way, Suite #200, Princeton, NJ 08540 (US).
- (21) International Application Number: **PCT/US2003/038895** (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 5 December 2003 (05.12.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/431,621 6 December 2002 (06.12.2002) US (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **THOMSON LICENSING S.A.** [FR/FR]; 46, Quai A. Le Gallo, F-92648 Boulogne (FR).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **ENGLERT, John, Walter** [US/US]; 4600 Allen Drive, Carmel, IN 46033 (US).
- Published:  
— *without international search report and to be republished upon receipt of that report*

[Continued on next page]

(54) Title: TUNER POWER DISSIPATION REDUCTION IN A STANDBY MODE



(57) **Abstract:** An apparatus such as a television signal processing apparatus 200 provides a means to control power dissipation by high speed signal processing circuitry associated with tuners 230, 250 while continuing to receive auxiliary data such as administrative data, guide data, or emergency alert notifications. According to an exemplary embodiment, the television signal processing apparatus 200 comprises a first tuner 230 for tuning a first signal when the television signal processing apparatus is in a first mode of operation and where power is removed from the first tuner 230 during a second mode of operation, a second tuner 250 for tuning a second signal when the television signal processing apparatus 200 is in a first mode of operation and a second mode of operation, wherein power is applied to the second tuner 250 for a portion of the time the television signal processing apparatus 200 is in the second mode of operation and the portion of the time the television signal processing apparatus 200 is in the second mode of operation is less than 100 percent of the time the television signal processing apparatus 200 is in the second mode of operation.

WO 2004/054227 A2